

Subject Index to Volume 23

Accessible batches	23 (1993) 223	Heuristic classification	23 (1993) 87
Artificial intelligence tools	23 (1993) 25	Hierarchical geometric construction	23 (1993) 129
B-rep	23 (1993) 3	Identification	23 (1993) 235
Backpropagation algorithms	23 (1993) 169	Integrated product modeling	23 (1993) 117
Biomechanics	23 (1993) 49	Intelligent CAD systems	23 (1993) 15
Boundary evaluation	23 (1993) 129	Intelligent control	23 (1993) 169
Boundary representation	23 (1993) 3	Interpolation	23 (1993) 199
CAD	23 (1993) 49	Inverse kinematics	23 (1993) 59
CAD/CAM	23 (1993) 25, 39	Judgement	23 (1993) 199
CAM	23 (1993) 49	Knowledge base	23 (1993) 175
CIM	23 (1993) 87, 139	Knowledge representation	23 (1993) 185
Classification	23 (1993) 39	Knowledge structures	23 (1993) 109
CNC	23 (1993) 199	Knowledge-based systems	23 (1993) 185, 205
Coding	23 (1993) 39	Leadscrew grinding	23 (1993) 169
Collaborative environment	23 (1993) 175	Learning	23 (1993) 185
Composite object	23 (1993) 25	Linearized continuous-time model	23 (1993) 235
Computer-aided design	23 (1993) 25, 39, 49	Manufacturing process modeling	23 (1993) 169
Computer-aided manufacturing	23 (1993) 25, 39, 49	Manufacturing systems	23 (1993) 139
Computer-integrated manufacturing	23 (1993) 87, 139	Matrix-geometric algorithmic approach	23 (1993) 223
Constraints	23 (1993) 25	Multicriteria	23 (1993) 99
CSG, Constructive Solid Geometry	23 (1993) 3	<i>n</i> -DOF mechanical system	23 (1993) 235
Cylindrical flat-end mill	23 (1993) 227	Neural networks	23 (1993) 169
Design by features	23 (1993) 15	Nibbling	23 (1993) 205
Design methodology	23 (1993) 15	Object-oriented data base	23 (1993) 117
Design process	23 (1993) 117	Object-oriented model	23 (1993) 25
End effector change-out mechanism	23 (1993) 65	Parameter estimation problem	23 (1993) 235
Feature classification	23 (1993) 129	Parametric geometry	23 (1993) 25
Features definition	23 (1993) 15	Parts model	23 (1993) 117
Feature extraction	23 (1993) 3, 39	Planar robot manipulator	23 (1993) 235
Feature recognition	23 (1993) 75, 87	Power distribution network	23 (1993) 185
Feature refinement	23 (1993) 75	Process control	23 (1993) 169
Feature-based design	23 (1993) 75, 129	Production aid	23 (1993) 109
Feature-based editing	23 (1993) 129	Protrusion feature	23 (1993) 75
Feature-based modelling	23 (1993) 3	Real time	23 (1993) 199
Features	23 (1993) 3	Risk management	23 (1993) 99
Feed rate	23 (1993) 199	Robotics	23 (1993) 59, 65
FMS	23 (1993) 99	Sheet metal	23 (1993) 205
Form features	23 (1993) 3	Simulation	23 (1993) 139, 185
Free-formed surface	23 (1993) 227	Skeletal plan	23 (1993) 87
Functional reasoning	23 (1993) 15	Surface finish	23 (1993) 227
General bulk service rule	23 (1993) 223	Surfaces	23 (1993) 49
Geometric reasoning	23 (1993) 75		
Gluing	23 (1993) 129		
Graph	23 (1993) 25		
Graphical interface	23 (1993) 175		
Group technology	23 (1993) 39		

Tool exchange	23 (1993) 65	Variation	23 (1993) 199
Tool path	23 (1993) 227	Variational geometry	23 (1993) 25
Turbomachinery	23 (1993) 49	Zero gravity	23 (1993) 65
Uncertainty reasoning	23 (1993) 109	3-D NC machining	23 (1993) 227

Author Index to Volume 23

Ahmad, M., *see* Fadul, F. 23 (1993) 243

Alards, G.P.A. and Th.E. Schouten, The intersection method: A new approach to the inverse kinematics problem 23 (1993) 59

Bauchat, J.L., J.M. David, A.L. Defretin, A. Wattellier and G. Caignaert, CAD/CAM of complex surfaces—The experience of a multi-disciplinary research team 23 (1993) 49

Bernardi, A., R. Legeitner and C. Klauck, PIM—Skeletal plan-based CAPP 23 (1993) 87

Brunel, Y., *see* Tang, Y. 23 (1993) 117

Caignaert, G., *see* Bauchat, J.L. 23 (1993) 49

Chaabane, M., *see* Nadir, Y. 23 (1993) 39

Chamberlain, M.A., *see* Wang, M.-T. 23 (1993) 75

Chan, E.K., *see* Teo, C.Y. 23 (1993) 185

Chang, T.-C., *see* Wang, M.-T. 23 (1993) 75

Choong, N.F., A.Y.C. Nee and H.T. Loh, The implementation of an automatic tool selection system for CNC nibbling 23 (1993) 205

David, J.M., *see* Bauchat, J.L. 23 (1993) 49

Defretin, A.L., *see* Bauchat, J.L. 23 (1993) 49

Dhas, D.A.M. and J. Sumitha, Two units connected in series with general bulk service of accessible batches in unit 2 23 (1993) 223

Ding Hong, Yang Shuzi and Zhu Xinbiao, Intelligent prediction and control of a leadscrew grinding process using neural networks 23 (1993) 169

Dwivedi, S.N., Z. Kulpa and M. Sobolewski, Graphical and natural language interface with a knowledge-based concurrent engineering environment 23 (1993) 175

Fadul, F. and M. Ahmad, Microcomputer-based multiple overcurrent relays 23 (1993) 243

Gaoua, H., *see* Gardan, Y. 23 (1993) 25

Gardan, Y. and C. Minich, Feature-based models for CAD/CAM and their limits 23 (1993) 3

Gardan, Y., H. Gaoua, J.-P. Jung and A. Zakari, Resolution and representation of constraints on geometric and evolutive objects 23 (1993) 25

Gauvin, D., *see* Kowalski, A. 23 (1993) 109

Gooi, H.B., *see* Teo, C.Y. 23 (1993) 185

Goubertier, P., *see* Tang, Y. 23 (1993) 117

Gurumoorthy, B., *see* Nalluri, S.R.P.R. 23 (1993) 129

Joneja, A., *see* Wang, M.-T. 23 (1993) 75

Jung, J.-P., *see* Gardan, Y. 23 (1993) 25

Klauck, C., *see* Bernardi, A. 23 (1993) 87

Kowalski, A. and D. Gauvin, Pitch Expert: A productivity improvement tool for pulp production 23 (1993) 109

Kulpa, Z., *see* Dwivedi, S.N. 23 (1993) 175

Kuula, M., A risk management model for FMS selection decisions: A multiple-criteria decision-making approach 23 (1993) 99

Legleitner, R., *see* Bernardi, A. 23 (1993) 87
Loh, H.T., *see* Choong, N.F. 23 (1993) 205

Marty, C., *see* Nadir, Y. 23 (1993) 39
Minich, C., *see* Gardan, Y. 23 (1993) 3
Morelli, A., *see* Tang, Y. 23 (1993) 117

Nadir, Y., M. Chaabane and C. Marty, PROCODE—Automated coding system in group technology for rotational parts 23 (1993) 39

Nalluri, S.R.P.R. and B. Gurumoorthy, Knowledge-based gluing operators for feature-based modelling 23 (1993) 129

Fee, A.Y.C., *see* Choong, N.F. 23 (1993) 205

Olivier, C., Simulation software for sheet metal working 23 (1993) 139

Song Qian, Automatic feed-rate control command generation—A step towards intelligent CNC 23 (1993) 199

Schouten, Th.E., *see* Alards, G.P.A. 23 (1993) 59

Schulte, M., C. Weber and R. Stark, Functional features for design in mechanical engineering 23 (1993) 15

Sobolewski, M., *see* Dwivedi, S.N. 23 (1993) 175

Stark, R., *see* Schulte, M. 23 (1993) 15

Sumitha, J., *see* Dhas, D.A.M. 23 (1993) 223

Tang, Y., Y. Brunel, P. Goubertier and A. Morelli, Integrated modeling of electro-mechanical products 23 (1993) 117

Teo, C.Y., H.B. Gooi and E.K. Chan, Record structure for knowledge representation and spot-learning in power distribution network 23 (1993) 185

Voellmer, G., A passive end effector change-out mechanism for on-orbit robotic servicing 23 (1993) 65

Wang, M.-T., M.A. Chamberlain, A. Joneja and T.-C. Chang, Manufacturing feature extraction and machined volume decomposition in a computer-integrated feature-based design and manufacturing planning environment 23 (1993) 75

Wang, Q.-G., Identification of linearized continuous-time models of mechanical systems from sampled data 23 (1993) 235

Wattellier, A., *see* Bauchat, J.L. 23 (1993) 49

Weber, C., *see* Schulte, M. 23 (1993) 15

Yang Shuzi, *see* Ding Hong 23 (1993) 169

Zakari, A., *see* Gardan, Y. 23 (1993) 25

Zhu, C., How to obtain a good surface finish in NC machining of free-formed surfaces 23 (1993) 227

Zhu Xinhao, *see* Ding Hong 23 (1993) 169